

S/N 09/824,903

Response to Office Action Dated 05/13/2005

In the Claims

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2 1. (original) A method for calculating look-up tables for a cluster of
3 printers, comprising:

4 determining a least dynamic printer in the cluster; and
5 calculating corrected input values required to normalize an output of at least
6 one non-least dynamic printer in the cluster.

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8 2. (original) The method of claim 1, wherein transfer functions are
9 calculated for each primary color.
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12 3. (cancelled)
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14 4. (original) The method of claim 1, wherein a least dynamic
15 printer is determined for each primary color.
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17 5. (original) The method of claim 1, additionally comprising
18 calculating transfer functions for each printer in the cluster.
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21 6. (original) The method of claim 1, additionally comprising
22 organizing the corrected input values into look-up tables.
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1 7. (original) A method for calibrating a cluster of printers,
2 comprising:

3 printing a calibration target with each printer in the cluster;
4 measuring each calibration target to produce measurement data;
5 calculating transfer functions for each printer in the cluster;
6 determining a least dynamic printer in the cluster;
7 calculating corrected input values required to normalize output of non-least
8 dynamic printers in the cluster;
9 organizing the corrected input values into look-up tables; and
10 sending the look-up tables to each printer within the cluster.

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13 8. (original) The method of claim 7, wherein the measuring is
14 performed by sensors in a paper path of each printer.

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16 9. (original) The method of claim 7, wherein the measurement data
17 is expressed in a CIELab context.

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20 10. (original) The method of claim 7, wherein the calculating steps
21 are performed on a master printer.

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23 11. (original) The method of claim 7, wherein the calculating steps
24 are performed on a print server.
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12. (original) The method of claim 7, additionally comprising incorporating the look-up tables into a color data flow of each printer in the cluster.

13. (original) A method of calibrating a cluster of printers, comprising:

printing a calibration target with each printer in the cluster;

measuring each calibration target to produce measurement data;

calculating transfer functions for each primary color and for each printer in the cluster;

determining a least dynamic printer in the cluster with respect to each primary color;

calculating corrected input values required to normalize output of non-least dynamic printers in the cluster to the least dynamic printer in each cluster with respect to each primary color;

organizing the corrected input values into look-up tables; and

sending the look-up tables to each printer within the cluster for inclusion in a color data flow.

14. (original) The method of claim 13, wherein the measuring is performed by sensors in a paper path of each printer.

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2 15. (original) A cluster of printers, comprising:
3 at least two printers;
4 a transfer function calculator to derive a transfer function for each printer
5 with respect to at least one color;
6 a least dynamic response selector to determine a least dynamic printer from
7 within the cluster of printers for at least one color;
8 a normalizer for calculation of corrected input values required to normalize
9 more dynamic printers' output with respect to the least dynamic printer; and
10 a look-up table assembler to organize the corrected input values into look-
11 up tables.
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14 16. (original) The method of claim 15, additionally comprising
15 a file transfer routine to send the look-up tables to each printer within the
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17. (original) A computer-readable medium having computer executable instructions thereon which, when executed by a printing system, cause the printing system to:

print a calibration target with each printer in a cluster;
measure each calibration target;
calculate transfer functions for each printer in the cluster;
determine a least dynamic printer in the cluster; and
calculate corrected input values required to normalize output of non-least dynamic printers in the cluster.

18. (original) The computer-readable medium of claim 17, additionally causing the printing system to organize the corrected input values into look-up tables.

19. (original) The computer-readable medium of claim 18, additionally causing the printing system to send the look-up tables to each printer within the cluster for inclusion in a color data flow.

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1 20. (original) A system, comprising:

2 a transfer function calculator to derive a transfer function for each printer
3 with respect to at least one color;

4 a least dynamic response selector to determine a least dynamic printer from
5 at least two transfer functions for at least one color; and

6 a normalizer for calculation of corrected input values required to normalize
7 at least one transfer function with respect to the least dynamic printer.
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10 21. (original) The calculator of claim 20, additionally comprising:

11 a look-up table assembler to organize the corrected input values into look-
12 up tables.
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14 22. (original) A printer containing the system of claim 20.
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